BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: PROVIDING ELECTRIFICATION WORKS AND AMENITES FOR ALLALSANDRA SWIMMING POOL IN WARD NO 4

Agency:-m/s KRIDL

SCHEDULE-B

Sl No	App Qty	Description of work	Approved Rates of m/s KRIDL		
			Unit	Rate in Figures	Rate in Words
1	53.00	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x3mm Copper strip directions of the Engineer-In-charge of the work .item no 7.3.6 page 55	rmt	523.00	Rupees Five Hundred Twenty Three Only
2	12.00	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x6mm Copper strip directions of the Engineer-In-charge of the work.item no 7.3.7 page 55	rmt	1018.00	Rupees One Thousand Eighteen Only
3	109.00	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required.25x3mm GI strip directions of the Engineer-In-charge of the work.item no 7.3.1 page 55	rmt	77.00	Rupees Seventy Seven Only
4	234850.00	PART C:-L.T Panel boards and distribution boards 1.0) Main LT Panel "Fabricating supplying and mounting MS box made out … SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. 6.40.1) 14SWG" directions of the Engineer-In-charge of the work. item no 6.401. page no 49	sqcm	0.37	Rupees And Paise Thirty Seven Only
5	8.00	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat … with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.6.39.5) 75x150x75x6mm C channel directions of the Engineer-In-charge of the work .item no 6.39.5. page no 49	rmt	791.00	Rupees Seven Hundred Ninety One Only

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Sl No	App Qty	Description of work	Approved Rates of m/s KRIDL		
			Unit	Rate in Figures	Rate in Words
6	1.00	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE200Amps 35kA.(Incoming) directions of the Engineer-In-charge of the work. item no 6.13.3 page no 46	each	9877.00	Rupees Nine Thousand Eight Hundred Seventy Seven Only
7	3.00	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE125-160Amps 25kA.(Outgoing) directions of the Engineer-In-charge of the work.item no 6.13.2 page no 46	each	5406.00	Rupees Five Thousand Four Hundred Six Only
8	4.00	Supplying and fixing of Shunt trip suitable for MCCB.CBCT. directions of the Engineer-In-charge of the work. item no 6.14 page no 46	each	1486.00	Rupees One Thousand Four Hundred Eighty Six Only
9	9.00	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. directions of the Engineer-In-charge of the work.item no 6.36 page no 48	each	442.00	Rupees Four Hundred Forty Two Only
10	2.00	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter. directions of the Engineer-In-charge of the work.Item no 6.26 page no 48	each	140.00	Rupees One Hundred Forty Only
11	2.00	Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy. directions of the Engineer-In-charge of the work .item no 6.31 page no 48	each	8003.00	Rupees Eight Thousand Three Only

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	App Qty	Description of work	Approved Rates of m/s KRIDL		
			Unit	Rate in Figures	Rate in Words
12	6.00	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound. directions of the Engineer-In-charge of the work. item no 6.32page no 48	each	483.00	Rupees Four Hundred Eighty Three Only
13	1.00	Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/manual reset facility suitable to mount on DIN rail/ flush mounting on panel board. directions of the Engineer-In-charge of the work. item no 6.19 page no 47	each	7998.00	Rupees Seven Thousand Nine Hundred Ninety Eight Only
14	6.00	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.6.38.2) 250Amps 4x30x10mm Aluminum Strips directions of the Engineer-In-charge of the work. item no 6.38.2 page no 49	each	2942.00	Rupees Two Thousand Nine Hundred Forty Two Only
15	20.00	Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834. 3 phase, 400/440 volts grade, for power factor improvement of rotating machinery. directions of the Engineer-In-charge of the work. item 6.35 page no 48	each	414.00	Rupees Four Hundred Fourteen Only
16	4.00	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.6.12.1) 25Amps directions of the Engineer-In-charge of the work. item 6.12.1 page no 45	each	1303.00	Rupees One Thousand Three Hundred Three Only

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	App Qty	Description of work	Approved Rates of m/s KRIDL		
			Unit	Rate in Figures	Rate in Words
17	1.00	Supplying, fixing and wiring Automatic Power Factor controller fully, static units controlled by 14 stage microprocessor operation, relays LED display, self programming function for power stages and operating logic checking facility for healthy and efficient of each individual capacitor bank, measurement of network harmonics with indication when limit values are exceeded, Comprehensive displays with large, three place LED display, Long term memory for settings, protection for over voltage, power factor correction fault and no voltage, to connect / disconnect banks, with automatic recognition or with standard programs. directions of the Engineer-In-charge of the work . item 6.37 page no 49	each	18660.00	Rupees Eighteen Thousand Six Hundred Sixty Only
18	9.00	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40-63 Amps TPN (Outgoing) directions of the Engineer-In-charge of the work. item no 6.16.6 page no 47	each	1936.00	Rupees One Thousand Nine Hundred Thirty Six Only
19	4.00	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor.6.2.1) Upto 12.5 HP directions of the Engineer-In-charge of the work . item 6.2.1 page no 44	each	6583.00	Rupees Six Thousand Five Hundred Eighty Three Only
20	3.00	3.0) MCB Distribution BoardsSupplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.III - Double Door6.17.7) 4Way TP &N directions of the Engineer-In-charge of the work . item no	each	2399.00	Rupees Two Thousand Three Hundred Ninety Nine Only

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	App Qty	Description of work	Approved Rates of m/s KRIDL		
			Unit	Rate in Figures	Rate in Words
21	2.00	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.12 Module directions of the Engineer-In-charge of the work. item no 13.6.6 page no 16	each	267.00	Rupees Two Hundred Sixty Seven Only
22	6.00	Fixing charges of post top/ Gate/ Garden fitting /LED on the existing CI / GI or any other pipe using required size of reducer, wiring using suitable wires. Item no 17.6 page no 108	each	145.00	Rupees One Hundred Forty Five Only
23	1.00	D.G.Set and its accessories Supplying, erection, testing and commissioning of .....KVA Diesel Generating Set on existing CC platform Comprising of Diesel Engine Developing ..... BHP @ 1500 RPM confirming to BS 5514.The engine should be turbocharged, Air/water cooled with 10 % over load for 1hour in every 12 hours of operation coupled to suitable capacity alternator rated at 415V, 0.8 PF(lag) 50 Hz, 3 phase, 4 wire system, confirming to BS 5000/IS 4722. The alternator shall be of brushless type ,Screen protected, revolving field, Mounted on suitable Channel Iron Base Frame, Complete with suitable capacity Fuel Tank, required nos. of Batteries of 12/24V as per requirement, Acoustic enclosure as per CPCB Approved Norms. 13.1.1 62.5kva/50kw. item no 13.1.1 page no 91	each	572400.00	Rupees Five Lakh(s) Seventy Two Thousand Four Hundred Only

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	App Qty	Description of work	Approved Rates of m/s KRIDL		
			Unit	Rate in Figures	Rate in Words
24	12.00	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median 10Mt (5Mt Hb,165.1mm dia 4.85mm thick x3M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 47. item no 5.13.1.2 page no 34	each	19000.00	Rupees Nineteen Thousand Only

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	App Qty	Description of work	Approved Rates of m/s KRIDL		
			Unit	Rate in Figures	Rate in Words
25	16.00	Supplying of LED Floodlight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved /	no	23577.00	Rupees Twenty Three Thousand Five Hundred Seventy Seven Only
26	4.00	LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.90 Watts.item no 7.4.4 page no 55	no	31250.00	Rupees Thirty One Thousand Two Hundred Fifty Only

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	App Qty	Description of work	Approved Rates of m/s KRIDL		
			Unit	Rate in Figures	Rate in Words
27	300.00	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm item no 6.41 page no 50	rmt	140.40	Rupees One Hundred Forty And Paise Forty Only
28	205.00	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 70 sqmm directions of the Engineer-In-charge of the work. item 6.41.2 page 56	rmt	270.00	Rupees Two Hundred Seventy Only
29	300.00	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.6 sqmm to 16 sqmm.item no 7.81 page no 61	rmt	10.80	Rupees Ten And Paise Eighty Only
30	205.00	25 sqmm to 75 sqmm	rmt	16.20	Rupees Sixteen And Paise Twenty Only
31	200.00	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary) item no 7.91 page no 62	rmt	78.00	Rupees Seventy Eight Only
32	6.00	LED Post Top Lantern GARDEN.Supply of LED Post Top Lantern with system ... wattage, housing & frame shall be of powder coated, die cast aluminum, diffuser with high density polyethylene IP65 EPDM Gasket. Life 50000 Hrs. @ L70 shall be conforming to IS 10322/Part 5/ Section 5 @ 230V. 5 years Warranty against any manufacturing defect working under standard electrical condition LED Post Top Lantern with 24 watts. item no 4.34.2 page no 26	no	15930.00	Rupees Fifteen Thousand Nine Hundred Thirty Only

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	App Qty	Description of work	Approved Rates of m/s KRIDL		
			Unit	Rate in Figures	Rate in Words
33	10.00	Supply of LED Square Recessed Down lighter with 18W System Wattage. Housing shall be with powder coated pressure die cast aluminum alloy with corrosion resistant polyester powder coat & with extended heat sink. Diffuser/cover made of Lexan plastic material. Rated life shall be L70 @ 50000 Hrs. which shall has inbuilt electrical protection like over/under voltage, short circuit, overload, open circuit & miswiring. Driver is on constant current driver output driver @ 0.06A with PF > 0.9 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens. 5 years Warranty against any manufacturing defect working under standard electrical condition. item no 4.32 page no 25	rmt	4945.00	Rupees Four Thousand Nine Hundred Forty Five Only
34	120.00	Open Conduit System Supplying heavy gauge PVC conduit pipe .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.25mm dia 2mm thick. item no 1.12 page no 70	rmt	70.00	Rupees Seventy Only
35	150.00	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.1.5 sqmm. item no 2.5.2 page no 36	rmt	18.60	Rupees Eighteen And Paise Sixty Only
36	300.00	2.5 sqmm	rmt	29.20	Rupees Twenty Nine And Paise Twenty Only

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